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STRUČNO MIŠLJENJE

Br. GFT-7145/20-M

Predmet:

Svojstva reakcije na požar –
PODNE I ZIDNE OBLOGE:

a. Homogene vinil podne obloge – tip **iQ Eminent**, **iQ Granit**, **Granit Multisafe**, **iQ Toro SC**, **Primo Premium**, u deklarisanim klasama **B_{fl}-s1**;
b. Homogena vinil zidna obloga, tip **Wallgard**, u deklarisanoj klasi **B-s2,d0**.

Proizvođač:
Tarkett AB, SE-372 81 Ronneby (Sweden).

Naručilac:

TARKETT SEE DOO BAČKA PALANKA
Industrijska zona 8,
21400 Bačka Palanka

Zahtev/Ponuda/Ugovor:

Ponuda br. 41-12163 od 08.10.2020. g.

Sadržaj:

Ukupno 45 (četrdesetpet) strana, od čega u prilogu 30 (trideset) strana.

Odobrio/-la:

INSTITUT IMS, A.D.
Centar za materijale
Direktor,

dr Zagorka Radojević,dipl.ing.
naučni savetnik

Beograd, 15.10.2020. g.

1. OPŠTI TEHNIČKI USLOVI

1.1 Relevantna domaća tehnička regulativa

Ispitivanja za sertifikaciju i sama sertifikacija elemenata tipskih građevinskih konstrukcija na otpornost prema požaru obavezni su u skladu sa *Pravilnikom o obaveznom atestiranju elemenata tipskih građevinskih konstrukcija na otpornost prema požaru i o uslovima koje moraju ispunjavati organizacije udruženog rada ovlašćene za atestiranje tih proizvoda (Sl. list SFRJ broj 24/90)*. U pogledu karakteristika negorivosti materijala, *Pravilnik* se poziva na standard *SRPS U.J1.040:1987 (povučen)*. Za ispitivanje karakteristike gorivosti materijala, određene Članom 3. *Pravilnika* (stav 1, t. 1)), metode ispitivanja (i klasifikacije) nisu sadržane u *Pravilniku*.

Metod EN-klasifikacije, sa metodama ispitivanja reakcije na požar građevinskih proizvoda i građevinskih elemenata, određen je standardom ***SRPS EN 13501-1:2019*** – *Požarna klasifikacija građevinskih proizvoda i elemenata zgrade – Deo 1: Klasifikacija na osnovu podataka dobijenih ispitivanjem reakcije na požar (Idt. EN 13501-1:2018)*. Klasifikacija se vrši s obzirom na krajnju upotrebu, pa jedan proizvod može da ima različite klase reakcije na požar.

Standard **SRPS EN 13501-1** (sa odgovarajućim metodama ispitivanja) citiran je u sledećim nacionalnim propisima – pravilnicima, kojima se uvode dole naznačene **klase reakcije na požar**, sa pozivom na isti standard:

1) Pravilnik o tehničkim normativima za sisteme za ventilaciju ili klimatizaciju (Sl. list SFRJ br. 38/89 i Sl. glasnik RS br. 118/2014) → **B-s1,d0; C-s1,d0**;
2) Pravilnik o tehničkim normativima za zaštitu ugostiteljskih objekata od požara (Sl. glasnik RS br. 61/2015) → **B_{fl}-s1; B-s1,d0**;
3) Pravilnik o tehničkim normativima za zaštitu visokih objekata od požara (Sl. glasnik RS br. 80/2015, br. 67/2017 i br. 103/2018) → **A1; A2-s1,d0; B-s1,d0; B_{fl}-s1**;
4) Pravilnik o tehničkim zahtevima bezbednosti od požara spoljnih zidova zgrada (Sl. glasnik RS, br. 59/2016, br. 36/2017 i br. 6/2019) → **negorivi građevinski materijali (A1 i A2); gorivi građevinski materijali (= materijali klase reakcije na požar B, C, D, E i F); produkcija dima (s1, s2 i s3)**; goruća kapanja (**d0, d1 i d2**); pojedinosti o klasama reakcije na požar sadržane su u Čl. 7 (Tabela 1, Tabela 2 i Tabela 3) i Čl. 7a (Tabela 4) istog pravilnika.
   Navedeni pravilnici sadrže ostale relevantne tehničke odredbe.

1.2 Specifični standardi proizvoda

Standardi citirani u okviru *Stručnog mišljenja*, ukoliko postoje.

1.3 Strana tehnička regulativa

Navedena u okviru analize dostavljene tehničke dokumentacije.

2. PREGLED TEHNIČKE DOKUMENTACIJE

Naručilac je dostavio *Institutu* sledeću tehničku dokumentaciju:

2.1 Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-6P01860-2

- izdao: **SP Technical Research Institute of Sweden** (Švedska); **NB 0402**; (aktuelni naziv za **NB 0402**: **RISE Research Institutes of Sweden AB**, www.ri.se);
- naručilac: **Tarkett AB, SE-372 81 Ronneby** (Sweden);
- sadržaj: 3 strane;
- datum izdavanja: 09.03.2016.;
- rok važnosti: -;
- način dostavljanja: e-, pdf-fajl, verzija na engleskom jeziku.

2.2 Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-5P00543-11

- izdao: **SP Technical Research Institute of Sweden** (Švedska); **NB 0402**; (aktuelni naziv za **NB 0402**: **RISE Research Institutes of Sweden AB**, www.ri.se);
- naručilac: **Tarkett AB, SE-372 81 Ronneby** (Sweden);
- sadržaj: 3 strane;
- datum izdavanja: 27.02.2015.;
- rok važnosti: -;
- način dostavljanja: e-, pdf-fajl, verzija na engleskom jeziku.

2.3 Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-5P00543-14

- izdao: **SP Technical Research Institute of Sweden** (Švedska); **NB 0402**; (aktuelni naziv za **NB 0402**: **RISE Research Institutes of Sweden AB**, www.ri.se);
- naručilac: **Tarkett AB, SE-372 81 Ronneby** (Sweden);
- sadržaj: 3 strane;
- datum izdavanja: 27.02.2015.;
- rok važnosti: -;
- način dostavljanja: e-, pdf-fajl, verzija na engleskom jeziku.

2.4 Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-4P00843-6

- izdao: **SP Technical Research Institute of Sweden** (Švedska); **NB 0402**; (aktuelni naziv za **NB 0402**: **RISE Research Institutes of Sweden AB**, www.ri.se);
- naručilac: **Tarkett AB, SE-372 81 Ronneby** (Sweden);
- sadržaj: 3 strane;

- datum izdavanja: 06.03.2014.;
- rok važnosti: -;
- način dostavljanja: e-, pdf-fajl, verzija na engleskom jeziku.

2.5 Izveštaj o ispitivanju reakcije na požar, br. 6P0571rev1

- izdao: **SP Technical Research Institute of Sweden** (Švedska); Akreditacija **SWEDAC br. 1002** – ispitna laboratorija prema ISO/IEC 17025;
- naručilac: **Tarkett AB, SE-372 81 Ronneby** (Sweden);
- sadržaj: 2 strane + 4 Priloga, ukupno 13 strana;
- datum izdavanja: 14.09.2016.;
- rok važnosti: -;
- način dostavljanja: e-, pdf-fajl, verzija na engleskom jeziku;

2.6 Tehnički list, 1 (jedna) strana, jezik engleski, izdao proizvođač, za proizvod **iQ EMINENT, RtF** klasa **B_{fl}-s1**;

2.7 Tehnički list, 1 (jedna) strana, jezik engleski, izdao proizvođač, za proizvod **iQ GRANIT, RtF** klasa **B_{fl}-s1**;

2.8 Tehnički list, 1 (jedna) strana, jezik engleski, izdao proizvođač, za proizvod **iQ TORO SC, RtF** klasa **B_{fl}-s1**;

2.9 Tehnički list, 1 (jedna) strana, jezik engleski, izdao proizvođač, za proizvod **PRIMO PREMIUM, RtF** klasa **B_{fl}-s1**;

2.10 Tehnički list, 1 (jedna) strana, jezik engleski, izdao proizvođač, za proizvod **WALLGARD, RtF** klasa **B-s2,d0**.

Navedena tehnička dokumentacija sastavni je deo ovoga *Stručnog mišljenja*, odn. arhivirana je u *Institutu*.

3. ANALIZA TEHNIČKE DOKUMENTACIJE

Tip proizvoda:
PODNE I ZIDNE OBLOGE

a. Homogene vinil podne obloge – tip **iQ Eminent**, **iQ Granit**, **Granit Multisafe**, **iQ Toro SC**, **Primo Premium**, u deklarisanim klasama **B_{fl}-s1**;
b. Homogena vinil zidna obloga, tip **Wallgard**, u deklarisanoj klasi **B-s2,d0**

Proizvođač:
Tarkett AB, SE-372 81 Ronneby (Sweden), **www.professionals.tarkett.com**

3.1 Opšti uslovi – (relevantne) klasifikacije s obzirom na svojstvo reakcije na požar

Osnovni standard je **SRPS EN 13501-1:2019**, sa pozivom na standarde – metode ispitivanja:

3.1.1 Klasifikacija PODNIH OBLOGA:

Klasa $A1_{fl}$: EN ISO 1182 i EN ISO 1716
Klasa $A2_{fl}$: EN ISO 1182 ili EN ISO 1716, i EN ISO 9239-1
Klase **B_{fl}**, C_{fl}, D_{fl}: **EN ISO 9239-1**, **EN ISO 11925-2**
Klasa E_{fl}: EN ISO 11925-2
Klasa F_{fl}: EN ISO 11925-2

Napomena:
klase $A2_{fl}$, B_{fl}, C_{fl} i D_{fl} sadrže i podklase s1, s2 (s obzirom na razvoj dima); harmonizovani standardi proizvoda mogu da sadrže posebne uslove u pogledu metoda i kriterijuma ispitivanja.

Tabela 3.1.1 - Kriterijumi za klasu **B_{fl}-s1**:

Metod ispitivanja:	Kriterijumi:
EN ISO 9239-1 (radijacioni pano; standardno trajanje: 30 minuta)	kritičan fluks [kW/m²] ≥ 8,0 kW/m² razvoj dima [%.min] ≤ 750 %.min
EN ISO 11925-2 (test zapaljivosti; standardno trajanje / izloženost: 15 s)	širenje plamena, *Fs* ≤ 150 mm (bez dostizanja kritične merne crte tokom 20 s po dejstvu plamena) paljenje filter-papira (bez paljenja tokom 20 s po dejstvu plamena)

Napomene:

1) Kritičan fluks se definiše kao izmereni fluks toplotnog zračenja u trenutku kada dođe do gašenja plamena, ili kao izmereni fluks toplotnog zračenja neposredno nakon završetka ispitivanja (trajanje ispitivanja: 30 minuta), pri čemu se usvaja manja vrednost;
2) Test zapaljivosti se sprovodi u uslovima površinskog dejstva plamena, ili, ukoliko je predviđeno za (planiranu) primenu proizvoda, u uslovima ivičnog dejstva plamena.
3) Sa pozivom na harmonizovani standard proizvoda, ***SRPS EN 14041:2011 – Elastične, tekstilne i laminatne podne obloge. Bitna svojstva, t. 4.1.4, Tabela 2***: Za proizvode ovoga tipa, zahtev za klasu $\mathbf{E_{fl}}$ ispunjen je bez ispitivanja, tj. ne dolazi do dostizanja kritične merne crte (ili do paljenja filter-papira), pa **ispitivanje prema EN ISO 11925-2 nije neophodno sprovoditi.**

Klasifikacija i direktno područje primene - klasa $\mathbf{B_{fl}}$-**s1**:

Osnovna klasa reakcije na požar:	Razvoj dima:	Goruća kapanja:
B_{fl}	s1	(ne ispituje se za podove)
Područje primene: (navodi se područje primene). **NAPOMENA:** Prema standardu *SRPS EN 14041:2011 – Elastične, tekstilne i laminatne podne obloge – Bitna svojstva*, a u skladu sa t. 4.1.2 standarda (*Pravila za primenu / postavljanje*): a) Ukoliko su uzorci ispitani korišćenjem lepka (nalepljeni na standardnu podlogu), rezultat ispitivanja je primenljiv na podne obloge lepljene tim lepkom (ili drugim lepkom istog generičkog tipa) na podlogu; b) Ukoliko su uzorci ispitani bez lepljenja (slobodno polaganje na standardnu podlogu), rezultat ispitivanja je primenljiv na podne obloge slobodno položene ili lepljene.		

3.1.2 Klasifikacija ZIDNIH OBLOGA:

Klasa A1: EN ISO 1182 i EN ISO 1716
Klasa A2: EN ISO 1182 ili EN ISO 1716, i EN 13823
Klase **B**, C, D: **EN 13823; EN ISO 11925-2 (izloženost 30 s)**
Klasa E: EN ISO 11925-2 (izloženost 15 s)
Klasa F: EN ISO 11925-2 (izloženost 15 s)

Napomena:
klase A2, B, C, D sadrže i podklase **s1, s2, s3** (s obzirom na razvoj dima), kao i podklase **d0, d1, d2** (pojava gorućih kapanja, odvajanja).

Tabela 3.1.2 - Kriterijumi za klasu **B-s2,d0**

Metod ispitivanja:	Parametri / Kriterijumi:
EN 13823	$FIGRA_{0,2MJ} \leq 120$ W/s $LFS <$ ivica uzorka $THR_{600s} \leq 7,5$ MJ

EN ISO 11925-2	*SMOGRA* ≤ 180 m²/s² TSP_{600s} ≤ 200 m² Bez gorućih kapanja / odvajanja tokom 600 s *LFS* ≤ 150 mm tokom 60 s

Klasifikacija i direktno područje primene - klasa **B-s2,d0**:

Osnovna klasa reakcije na požar:	Razvoj dima:	Goruća kapanja:
B	s2	d0
Područje primene: (navodi se područje primene).		

3.2 Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-6P01860-2

(u daljem tekstu: *Dokument 1*)

Poziv na standard: **EN 13501-1:2007+A1:2009**, t. 12 i 15.

Naziv proizvoda: **iQ Eminent**.

Debljina: **2,0 mm**.

Površinska masa: **2800 g/m²**.

Opis i primena proizvoda: Elastična podna obloga (poziv na harmonizovani standard proizvoda EN 14041), namenjena za primenu u unutrašnjim prostorima; dekorativna homogena podna obloga tipa punjenog PVC plastifikovanog materijala.

Poziv na izveštaj o ispitivanju (izdao SP (Švedska) za Tarkett AB):

Izveštaj o ispitivanju br. 6P01860 (ispitivanja prema EN ISO 9239-1 i EN ISO 11925-2).

Pregled rezultata ispitivanja:

EN ISO 11925-2 (izloženost 15 s, 6 uzoraka) → NA (=ispitivanje nije primenljivo), Fs ≤ 150 mm (zadovoljava prema EN 14041);

EN ISO 9239-1 → 3 uzorka; kritičan fluks = 10,0 kW/m²; razvoj dima 38 %.min.

→ Klasifikacija: **B_{fl}-s1**, kada se proizvod primenjuje na podlogama na bazi drveta; debljine (najmanje) 18 mm, ili na podlogama u klasama $A1_{fl}$ ili $A2_{fl}$, debljine (najmanje) 6 mm, zapreminske mase (najmanje) 510 kg/m³.

Napomene: rezultati ispitivanja / klasifikacija proizvoda odnose se na ispitne uzorke obezbeđene / odabrane od strane naručioca ispitivanja; *Dokument 1* ne predstavlja odobrenje tipa niti sertifikaciju proizvoda; podaci o proizvodu odgovaraju DoP, koju je izradio naručilac ispitivanja, saglasno sistemu 3 ocene i potvrđivanja stalnosti

performanse i CE označavanju prema CPR; prema DoP, u proizvodnji se ne primenjuju specifični procesi ili procedure, niti se dodaju retardanti gorenja, niti se ograničava sadržaj organskih materija, niti se dodaju punioci, što bi vodilo ka poboljšavanju karakteristika u uslovima ispitivanja, pa se AVCP Sistem 3 smatra odgovarajućim za primenu.

3.3 Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-5P00543-11

(u daljem tekstu: *Dokument 2*)

Poziv na standard: **EN 13501-1:2007+A1:2009**, t. 12 i 15.

Naziv proizvoda: **Granit Multisafe**.

Debljina: **2,5 mm**.

Površinska masa: **3010 g/m²**.

Opis i primena proizvoda: Elastična podna obloga (poziv na harmonizovani standard proizvoda EN 14041), namenjena za primenu u unutrašnjim prostorima; dekorativna homogena podna obloga tipa punjenog PVC plastifikovanog materijala.

Poziv na izveštaj o ispitivanju (izdao SP (Švedska) za Tarkett AB):

Izveštaj o ispitivanju br. 5P00543-3 (ispitivanja prema EN ISO 9239-1 i EN ISO 11925-2).

Pregled rezultata ispitivanja:

EN ISO 11925-2 (izloženost 15 s, 6 uzoraka) → NA (=ispitivanje nije primenljivo), Fs ≤ 150 mm (zadovoljava prema EN 14041);

EN ISO 9239-1 → 3 uzorka; kritičan fluks = 10,4 kW/m²; razvoj dima 146 %.min.

→ Klasifikacija: **B_{fl}-s1**, kada se proizvod primenjuje na podlogama na bazi drveta, debljine (najmanje) 18 mm, ili na podlogama u klasama $A1_{fl}$ ili $A2_{fl}$, debljine (najmanje) 6 mm, zapreminske mase (najmanje) 510 kg/m³.

Napomene: rezultati ispitivanja / klasifikacija proizvoda odnose se na ispitne uzorke obezbeđene / odabrane od strane naručioca ispitivanja; *Dokument 1* ne predstavlja odobrenje tipa niti sertifikaciju proizvoda; podaci o proizvodu odgovaraju DoP, koju je izradio naručilac ispitivanja, saglasno sistemu 3 ocene i potvrđivanja stalnosti performanse i CE označavanju prema CPR; prema DoP, u proizvodnji se ne primenjuju specifični procesi ili procedure, niti se dodaju retardanti gorenja, niti se ograničava sadržaj organskih materija, niti se dodaju punioci, što bi vodilo ka poboljšavanju karakteristika u uslovima ispitivanja, pa se AVCP Sistem 3 smatra odgovarajućim za primenu.

3.4 Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-5P00543-14

(u daljem tekstu: *Dokument 3*)

Poziv na standard: **EN 13501-1:2007+A1:2009**, t. 12 i 15.
Naziv proizvoda: **iQ Toro SC**.
Debljina: **2,0 mm**.
Površinska masa: **2950 g/m²**.
Opis i primena proizvoda: Elastična podna obloga (poziv na harmonizovani standard proizvoda EN 14041), namenjena za primenu u unutrašnjim prostorima; dekorativna homogena podna obloga tipa punjenog PVC plastifikovanog materijala.

Poziv na izveštaj o ispitivanju (izdao SP (Švedska) za Tarkett AB):
Izveštaj o ispitivanju br. 5P00543-7 (ispitivanja prema EN ISO 9239-1 i EN ISO 11925-2).
Pregled rezultata ispitivanja:
EN ISO 11925-2 (izloženost 15 s, 6 uzoraka) → NA (=ispitivanje nije primenljivo), Fs ≤ 150 mm (zadovoljava prema EN 14041);
EN ISO 9239-1 → 3 uzorka; kritičan fluks = 10,1 kW/m²; razvoj dima 166 %.min.

→ Klasifikacija: **B_{fl}-s1**, kada se proizvod primenjuje na podlogama na bazi drveta, debljine (najmanje) 18 mm, ili na podlogama u klasama $A1_{fl}$ ili $A2_{fl}$, debljine (najmanje) 6 mm, zapreminske mase (najmanje) 510 kg/m³.

Napomene: rezultati ispitivanja / klasifikacija proizvoda odnose se na ispitne uzorke obezbeđene / odabrane od strane naručioca ispitivanja; *Dokument 1* ne predstavlja odobrenje tipa niti sertifikaciju proizvoda; podaci o proizvodu odgovaraju DoP, koju je izradio naručilac ispitivanja, saglasno sistemu 3 ocene i potvrđivanja stalnosti performanse i CE označavanju prema CPR; prema DoP, u proizvodnji se ne primenjuju specifični procesi ili procedure, niti se dodaju retardanti gorenja, niti se ograničava sadržaj organskih materija, niti se dodaju punioci, što bi vodilo ka poboljšavanju karakteristika u uslovima ispitivanja, pa se AVCP Sistem 3 smatra odgovarajućim za primenu.

3.5 Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-4P00843-6
(u daljem tekstu: *Dokument 4*)

Poziv na standard: **EN 13501-1:2007+A1:2009**, t. 12 i 15.
Naziv proizvoda: **Primo Premium**.
Debljina: **2,0 mm**.
Površinska masa: **3000 g/m²**.
Zapreminska masa: **1575 kg/m³**.

Opis i primena proizvoda: Elastična podna obloga (poziv na harmonizovani standard proizvoda EN 14041), namenjena za primenu u unutrašnjim prostorima; dekorativna homogena podna obloga tipa punjenog PVC plastifikovanog materijala.

Poziv na izveštaj o ispitivanju (izdao SP (Švedska) za Tarkett AB):

Izveštaj o ispitivanju br. 4P00843-2 (ispitivanja prema EN ISO 9239-1 i EN ISO 11925-2).

Pregled rezultata ispitivanja:

EN ISO 11925-2 (izloženost 15 s, 6 uzoraka) → NA (=ispitivanje nije primenljivo), Fs ≤ 150 mm (zadovoljava prema EN 14041);

EN ISO 9239-1 → 3 uzorka; kritičan fluks = 10,4 kW/m^2; razvoj dima 104 %.min.

→ Klasifikacija: **B_{fl}-s1**, kada se proizvod primenjuje na podlogama na bazi drveta, debljine (najmanje) 18 mm, ili na podlogama u klasama $A1_{fl}$ ili $A2_{fl}$, debljine (najmanje) 6 mm, zapreminske mase (najmanje) 510 kg/m^3.

Napomene: rezultati ispitivanja / klasifikacija proizvoda odnose se na ispitne uzorke obezbeđene / odabrane od strane naručioca ispitivanja; *Dokument 1* ne predstavlja odobrenje tipa niti sertifikaciju proizvoda; podaci o proizvodu odgovaraju DoP, koju je izradio naručilac ispitivanja, saglasno sistemu 3 ocene i potvrđivanja stalnosti performanse i CE označavanju prema CPR; prema DoP, u proizvodnji se ne primenjuju specifični procesi ili procedure, niti se dodaju retardanti gorenja, niti se ograničava sadržaj organskih materija, niti se dodaju punioci, što bi vodilo ka poboljšavanju karakteristika u uslovima ispitivanja, pa se AVCP Sistem 3 smatra odgovarajućim za primenu.

3.6 Izveštaj o ispitivanju reakcije na požar, br. 6P0571rev1

(u daljem tekstu: *Dokument 5*)

Metode ispitivanja: EN 13823:2010+A1:2014 (SBI metod); EN ISO 11925-2.
Kondicioniranje: EN 13238:2010.
Namena testa: informativni test, na jednom uzorku.
Klasifikacija: bez klasifikacije.
Naziv proizvoda: **Wallgard**.
Debljina: **1,3 mm**.
Površinska masa (nominalno): **2475 g/m^2**.
Površinska masa (mereno): **2,1 kg/m^2**.

Dokument 5 sadrži sledeće priloge:

Prilog 1 – Rezultati ispitivanja, EN ISO 11925-2 – Wallgard 1.3 mm
Prilog 2 – Rezultati ispitivanja, EN 13823 – Wallgard 1.3 mm
Prilog 3 – Foto-snimci
Prilog 4 – Objašnjenja ispitnih parametara, EN 13823.

Prema *Prilogu 1* – Rezultati ispitivanja, EN ISO 11925-2 – Wallgard 1.3 mm: proizvod ispitan nalepljen na gipskartonsku ploču **lepkom tipa PVAc**, oznake **Casco Proff Extra 3444**, u količini za nanošenje oko **250 g/m²**; pri ivičnom dejstvu plamena (u trajanju od 30 s), orijentacije naviše, paljenje nakon 4 s, bez dostizanja kritične merne crte ($Fs < 150$ mm), bez pojave gorućih odvajanja / kapanja, bez paljenja filter-papira; pri površinskom dejstvu plamena (u trajanju od 30 s), orijentacije naviše, bez paljenja, bez dostizanja kritične merne crte ($Fs < 150$ mm), bez pojave gorućih odvajanja / kapanja, bez paljenja filter-papira; napomena o odstupanju od standardih uslova – relativna vlažnost u prostoriji bila je veća od standardom dopuštene, pri čemu se ocenjuje da ovo odstupanje nije relevantno za rezultat ispitivanja.

Prema *Prilogu 2* – Rezultati ispitivanja, EN 13823 – Wallgard 1.3 mm: zidna obloga montirana saglasno EN 13823:2010+A1:2014, t. 5.2.2d/e; proizvod ispitan nalepljen na gipskartonsku ploču **lepkom tipa PVAc**, oznake **Casco Proff Extra 3444**, u količini za nanošenje oko **250 g/m²**; ispitni uzorak sa vertikalnim i sa horizontalnim spojem; zadnja ploča direktno postavljena iza gipskartonske ploče; gipskartonska ploča ispunjava zahteve navedene u EN 13238; bez pojave gorućih kapanja ili odvajanja; bez širenja plamena do ivice (LFS); $FIGRA_{0,2MJ}$ = 75 W/s; $FIGRA_{0,4MJ}$ = 59 W/s; THR_{600s} = 4 MJ; $SMOGRA$ = 21 m²/s²; $TSP_{600s} \leq 123$ m².

3.7 Tehnički list za proizvod **iQ EMINENT, RtF** klasa **B_{fl}-s1**
(u daljem tekstu: *Dokument 6*)

Opis proizvoda:

Homogena jednoslojna vinil podna obloga, koja zadovoljava zahteve EN 14041 (i ISO 10581), debljine 2,0 mm, površinske mase 2800 g/m², koja se izrađuje u rolnama i u tablama, u 34 boje, u klasi B_{fl}-s1, sa pozivom na 0019-0008-DoP-2013-07.

3.8 Tehnički list za proizvod **iQ GRANIT** (i **Granit Multisafe**), **RtF** klasa **B_{fl}-s1**
(u daljem tekstu: *Dokument 7*)

Opis proizvoda:

iQ GRANIT → Homogena jednoslojna vinil podna obloga, površinskog tretmana iQ, koja zadovoljava zahteve ISO 10581, debljine 2,0 mm, površinske mase 2800 g/m², koja se izrađuje u rolnama i u tablama, u 49+1 boja, u klasi B_{fl}-s1, sa pozivom na 0019-0009-DoP-2013-07.

Granit Multisafe → Homogena jednoslojna vinil podna obloga, grube površine (protivklizna površina), koja zadovoljava zahteve ISO 10581, debljine 2,5 mm, površinske mase 3010 g/m^2, koja se izrađuje u rolnama, u 16 boja, u klasi B_{fl}-s1, sa pozivom na 0019-0034-DoP-2013-07.

3.9 Tehnički list za proizvod **iQ TORO SC, RtF** klasa **B_{fl}-s1**
(u daljem tekstu: *Dokument 8*)

Opis proizvoda:
Homogena jednoslojna vinil podna obloga, površinskog tretmana iQ, antistatička, koja zadovoljava zahteve EN 14041 (i ISO 10581), debljine 2,0 mm, površinske mase 2950 g/m^2, koja se izrađuje u rolnama i u tablama, u 14 boja, u klasi B_{fl}-s1, sa pozivom na 0019-0038-DoP-2013-07.

3.10 Tehnički list za proizvod **PRIMO PREMIUM, RtF** klasa **B_{fl}-s1**
(u daljem tekstu: *Dokument 9*)

Opis proizvoda:
Homogena jednoslojna vinil podna obloga, koja zadovoljava zahteve ISO 10581, debljine 2,0 mm, površinske mase 3000 g/m^2, koja se izrađuje u rolnama i u tablama, u 36 boja, u klasi B_{fl}-s1, sa pozivom na 0019-0018-DoP-2013-07.

3.11 Tehnički list za proizvod **WALLGARD, RtF** klasa **B-s2,d0**
(u daljem tekstu: *Dokument 10*)

Opis proizvoda:
Homogena jednoslojna vinil zidna obloga, koja zadovoljava zahteve EN 259-1 i EN 15102, debljine 1,3 mm, površinske mase 2100 g/m^2, koja se izrađuje u rolnama, u 13 boja, u klasi B-s2,d0, sa pozivom na 0019-0043-DoP-2013-07.

4. KOMENTARI

- PODNE OBLOGE → Standard ***SRPS EN 13501-1:2019*** definiše sledeće klase reakcije na požar (u opadajućem redosledu kvaliteta): $A1_{fl}$, $A2_{fl}$, **B_{fl}**, C_{fl}, D_{fl}, E_{fl}, F_{fl}. Dodatne klasifikacije za razvoj dima (u opadajućem redosledu kvaliteta): **s1**, s2.

- Prema standardu ***SRPS EN 14041:2011*** – *Elastične, tekstilne i laminatne podne obloge – Bitna svojstva*, a u skladu sa t. 4.1.2 standarda (*Pravila za primenu / postavljanje*):
a) Ukoliko su uzorci ispitani korišćenjem lepka (nalepljeni na standardnu podlogu), rezultat ispitivanja je primenljiv na podne obloge lepljene tim lepkom (ili drugim lepkom istog generičkog tipa) na podlogu;
b) Ukoliko su uzorci ispitani bez lepljenja (slobodno polaganje na standardnu podlogu), rezultat ispitivanja je primenljiv na podne obloge slobodno položene ili lepljene.

- ZIDNE OBLOGE → Standard ***SRPS EN 13501-1:2019*** definiše sledeće klase reakcije na požar (u opadajućem redosledu kvaliteta): A1, A2, **B**, C, D, E, F. Dodatne klasifikacije za razvoj dima (u opadajućem redosledu kvaliteta): s1, **s2**, s3. Dodatne klasifikacije za prisustvo gorućih kapanja / odvajanja (u opadajućem redosledu kvaliteta): **d0** (bez prisustva), d1, d2.

- Prema raspoloživim rezultatima (informativnih) ispitivanja – na po jednom uzorku za svaku od dve metode ispitivanja (v. *Dokument 5*), za proizvod **Wallgard** ispunjeni su uslovi za (očekivanu) klasu reakcije na požar **B-s2,d0**, koji su, s obzirom na vrstu proizvoda (jednoslojna, homogena zidna obloga, po sastavu vinil-obloga), prihvaćeni za svrstavanje u deklarisanu (v. *Dokument 10*) klasu reakcije na požar (**B-s2,d0**), ponovljenu i u odgovarajućem **DoP**. (Harmonizovani) standard proizvoda je **SRPS EN 15102:2019** – Dekorativne zidne obloge – Proizvodi u obliku rolni.

U skladu sa navedenim, donose se zaključci kao u t. 5. ovog *Stručnog mišljenja.*

5. ZAKLJUČCI

Na osnovu iznetog, zaključuje se sledeće:

građevinski proizvodi namenjeni preventivnoj / pasivnoj zaštiti od požara – **PODNE I ZIDNE OBLOGE**

a. Homogene vinil podne obloge – tip **iQ Eminent**, **iQ Granit, Granit Multisafe**, **iQ Toro SC** i **Primo Premium**, u deklarisanim klasama **B_{fl}-s1**;

b. Homogena vinil zidna obloga, tip **Wallgard**, u deklarisanoj klasi **B-s2,d0**, proizvodnje **Tarkett AB, SE-372 81 Ronneby** (Sweden),

deklarisane, po tipu, svojstvima i primeni, u okviru tačke ***3.*** ovog *Stručnog mišljenja* i u tehničkoj dokumentaciji na koju se u *Stručnom mišljenju* poziva, u pogledu **svojstava reakcije na požar**, u skladu sa standardima, propisima i ostalim definisanim tehničkim uslovima prema tački **1.** ovog *Stručnog mišljenja*, imaju sledeće karakteristike:

a. **PODNE OBLOGE** → klasa reakcije na požar **B_{fl}-s1** saglasno standardu **SRPS EN 13501-1:2019**;

b. **ZIDNA OBLOGA** → klasa reakcije na požar **B-s2,d0** saglasno standardu **SRPS EN 13501-1:2019**,

kada se koriste u načinima primene (ugradnje) definisanim u okviru ovog *Stručnog mišljenja*, odn. u okviru dokumenata na koja se u ovom *Stručnom mišljenju* poziva.

Zaključci su izvedeni na osnovu izvršenog pregleda tehničke dokumentacije koju je *Naručilac* dostavio u *Institut*, kao i u skladu sa relevantnom tehničkom regulativom.

Ovo *Stručno mišljenje* se izdaje na zahtev *Naručioca*, firme **TARKETT SEE DOO BAČKA PALANKA,** Industrijska zona 8, 21400 Bačka Palanka, i ne zamenjuje *Izveštaj o ispitivanju*, koji *Centralna laboratorija za ispitivanje materijala Instituta IMS a.d. - Beograd - Laboratorija za toplotnu tehniku i zaštitu od požara*, izdaje na osnovu sprovedenih ispitivanja, ili ispitivanja sprovedenih u sistemu podugovaranja ispitivanja sa trećom stranom - akreditovanom laboratorijom u zemlji ili u inostranstvu.

Stručno mišljenje* se ne sme umnožavati, izuzev u celini, bez odobrenja *Centra za materijale.

Beograd, 15.10.2020. g.

Glavni diplomirani inženjer,

Mirjana Drpić, dipl.ing.el.

INSTITUT IMS, A.D.
Centar za materijale
Direktor,

dr Zagorka Radojević,dipl.ing.
naučni savetnik

- ***Kraj Stručnog mišljenja -***

6. PRILOZI:

Broj strana:

6.1 **Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-6P01860-2** ..... 3 (tri)

6.2 **Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-5P00543-11** ..... 3 (tri)

6.3 **Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-5P00543-14** ..... 3 (tri)

6.4 **Izveštaj o klasifikaciji prema reakciji na požar, br. 0402-CPR-4P00843-6** ..... 3 (tri)

6.5 **Izveštaj o ispitivanju reakcije na požar, br. 6P0571rev1** ..... 13 (trinaest)

6.6 Tehnički list za proizvod **iQ EMINENT** ..... 1 (jedna)

6.7 Tehnički list za proizvod **iQ GRANIT** ..... 1 (jedna)

6.8 Tehnički list za proizvod **iQ TORO SC** ..... 1 (jedna)

6.9 Tehnički list za proizvod **PRIMO PREMIUM** ..... 1 (jedna)

6.10 Tehnički list za proizvod **WALLGARD** ..... 1 (jedna)

Contact person
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Accred. No. 1002
Inspection
ISO/IEC 17020 (A)
Notified body

Tarkett AB
SE-372 81 RONNEBY

Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product "iQ Eminent" in accordance with the procedure given in EN 13501-1:2007+A1:2009.

2 Details of classified product

2.1 General

The product "iQ Eminent" is defined as a floor covering. Its classification is valid for the end use application as floor covering for indoor use.

According to the owner of this classification report, this product complies with the European product specification EN 14041.

2.2 Product description

According to client:

The product is a decorative homogeneous floor covering called "iQ Eminent", consisting of filled plasticized PVC. The total product has a nominal thickness of 2.0 mm and a nominal area weight of 2800 g/m^2.

3 Test reports & test results in support of classification

3.1 Test reports

This classification is based on the test report listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test methods
SP	Tarkett AB	6P01860	EN ISO 9239-1 EN ISO 11925-2

Swedish Notified Bodies are appointed by SWEDAC, the Swedish Board for Accreditation and Conformity Assessment, under the terms of Swedish legislation. This report may not be reproduced other than in full, except with the prior written approval of SP.

3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance parameter
EN ISO 11925-2		6		
15 s exposure	*Fs* ≤ 150 mm		(-)	Compliant
EN ISO 9239-1		3		
	Critical flux (kW/m^2)		10.0	Compliant
	Smoke (%.min)		38	Compliant

(-) : not applicable

4 Classification and field of application

4.1 Reference and direct field of application

This classification has been carried out in accordance with clause 12 and 15 of EN 13501-1:2007+A1:2009.

4.2 Classification

The product called "iQ Eminent" in relation to its reaction to fire behaviour is classified:

B_{fl}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

Fire Behaviour		Smoke Production	
B_{fl}	-	**s**	**1**

Reaction to fire classification: B_{fl}-s1

4.3 Field of application:

This classification is valid for the following product parameters:

Nominal thickness : 2.0 mm.

Area weight : 2800 g/m^2.

This classification is valid for the following end use applications:

Substrates

- Wood based substrates at least 18 mm thick or substrates of Euroclass A1$_{fl}$ or A2$_{fl}$ at least 6 mm thick, having a density ≥ 510 kg/m^3.

The sample was delivered by the client. SP Fire Research was not involved in the sampling procedure.

5 Limitations

This classification document does not represent type approval or certification of the product.

"The classification assigned to the product in this report is appropriate to a declaration of performance by the manufacturer within the context of system 3 of assessment and verification of constancy of performance and CE marking under the Construction Products Regulation.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested."

SP Technical Research Institute of Sweden
Fire Research - Fire Dynamics

Performed by

Signed by: Johan Post
Reason: I am the author of this document
Date & Time: 2016-03-09 15:29:26 +01:00

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Examined by

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REPORT 0402 – CPR – 5P00543-11
issued by notified body No. 0402

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Date 2015-02-27 | Reference 5P00543-11 | Page 1 (3)

Tarkett AB
SE-372 81 RONNEBY

Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product "Granit Multisafe" in accordance with the procedure given in EN 13501-1:2007+A1:2009.

2 Details of classified product

2.1 General

The product "Granit Multisafe" is defined as a floor covering. Its classification is valid for the end use application as floor covering for indoor use.

According to the owner of this classification report, this product complies with the European product specification EN 14041.

2.2 Product description

According to client:

The product is a decorative homogeneous floor covering called "Granit Multisafe", consisting of filled plasticized PVC. The total product has a nominal thickness of 2.5 mm and a nominal area weight of 3010 g/m^2.

3 Test reports & test results in support of classification

3.1 Test reports

This classification is based on the test report listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
SP	Tarkett AB	5P00543-3	EN ISO 9239-1 EN ISO 11925-2

Swedish Notified Bodies are appointed by SWEDAC, the Swedish Board for Accreditation and Conformity Assessment, under the terms of Swedish legislation. This report may not be reproduced other than in full, except with the prior written approval of SP.

3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance parameter
EN ISO 11925-2		6		
15 s exposure	*Fs* ≤ 150 mm		(-)	Compliant
EN ISO 9239-1		3		
	Critical flux (kW/m^2)		10.4	Compliant
	Smoke (%.min)		146	Compliant

(-) : not applicable

4 Classification and field of application

4.1 Reference and direct field of application

This classification has been carried out in accordance with clause 12 and 15 of EN 13501-1:2007+A1:2009.

4.2 Classification

The product called "Granit Multisafe" in relation to its reaction to fire behaviour is classified:

B_{fl}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

Fire Behaviour		Smoke Production	
B_{fl}	**-**	**s**	**1**

Reaction to fire classification: B_{fl}-s1

4.3 Field of application:

This classification is valid for the following product parameters:

Nominal thickness : 2.5 mm.

Area weight : 3010 g/m^2.

This classification is valid for the following end use applications:

Substrates

- Wood based substrates at least 18 mm thick or substrates of Euroclass A1$_{fl}$ or A2$_{fl}$ at least 6 mm thick, having a density ≥ 510 kg/m^3.

The sample was delivered by the client. SP Fire Research was not involved in the sampling procedure.

5 Limitations

This classification document does not represent type approval or certification of the product.

"The classification assigned to the product in this report is appropriate to a declaration of performance by the manufacturer within the context of system 3 of assessment and verification of constancy of performance and CE marking under the Construction Products Regulation.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested."

SP Technical Research Institute of Sweden
Fire Research - Fire Dynamics

Performed by

Johan Post

Examined by

Per Thureson

REPORT 0402 – CPR – 5P00543-14

issued by notified body No. 0402

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Date 2015-02-27 | Reference 5P00543-14 | Page 1 (3)

Tarkett AB
SE-372 81 RONNEBY

Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product "iQ Toro SC" in accordance with the procedure given in EN 13501-1:2007+A1:2009.

2 Details of classified product

2.1 General

The product "iQ Toro SC" is defined as a floor covering. Its classification is valid for the end use application as floor covering for indoor use.

According to the owner of this classification report, this product complies with the European product specification EN 14041.

2.2 Product description

According to client:

The product is a decorative homogeneous floor covering called "iQ Toro SC", consisting of filled plasticized PVC. The total product has a nominal thickness of 2.0 mm and a nominal area weight of 2950 g/m^2.

3 Test reports & test results in support of classification

3.1 Test reports

This classification is based on the test report listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
SP	Tarkett AB	5P00543-7	EN ISO 9239-1 EN ISO 11925-2

Swedish Notified Bodies are appointed by SWEDAC, the Swedish Board for Accreditation and Conformity Assessment, under the terms of Swedish legislation. This report may not be reproduced other than in full, except with the prior written approval of SP.

3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance parameter
EN ISO 11925-2		6		
15 s exposure	*Fs* ≤ 150 mm		(-)	Compliant
EN ISO 9239-1		3		
	Critical flux (kW/m^2)		10.1	Compliant
	Smoke (%.min)		166	Compliant

(-) : not applicable

4 Classification and field of application

4.1 Reference and direct field of application

This classification has been carried out in accordance with clause 12 and 15 of EN 13501-1:2007+A1:2009.

4.2 Classification

The product called "iQ Toro SC" in relation to its reaction to fire behaviour is classified:

B_{fl}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

Fire Behaviour		Smoke Production	
B_{fl}	-	s	1

Reaction to fire classification: Bfl-s1

4.3 Field of application:

This classification is valid for the following product parameters:

Nominal thickness : 2.0 mm.

Area weight : 2950 g/m^2.

This classification is valid for the following end use applications:

Substrates

- Wood based substrates at least 18 mm thick or substrates of Euroclass A1$_{fl}$ or A2$_{fl}$ at least 6 mm thick, having a density ≥ 510 kg/m^3.

The sample was delivered by the client. SP Fire Research was not involved in the sampling procedure.

5 Limitations

This classification document does not represent type approval or certification of the product.

"The classification assigned to the product in this report is appropriate to a declaration of performance by the manufacturer within the context of system 3 of assessment and verification of constancy of performance and CE marking under the Construction Products Regulation.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested."

SP Technical Research Institute of Sweden
Fire Research - Fire Dynamics

Performed by

Johan Post

Examined by

Per Thureson

SP
your Science Partner

REPORT issued by notified body No. 0402

0402 – CPR – 4P00843-6

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Date 2014-03-06 | Reference 4P00843-6 | Page 1 (3)

Tarkett AB
SE-372 81 RONNEBY

Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product "Primo Premium" in accordance with the procedure given in EN 13501-1:2007+A1:2009.

2 Details of classified product

2.1 General

The product "Primo Premium" is defined as a floor covering. Its classification is valid for the end use application as floor covering for indoor use.

According to the owner of this classification report, this product complies with the European product specification EN 14041.

2.2 Product description

According to client:

The product is a decorative homogeneous floor covering called "Primo Premium", consisting of filled plasticized PVC. The total product has an nominal thickness of 2.0 mm, a nominal area weight of 3000 g/m^2 and a nominal density of 1575 kg/m^3.

3 Test reports & test results in support of classification

3.1 Test reports

This classification is based on the test report listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
SP	Tarkett AB	4P00843-2	EN ISO 9239-1 EN ISO 11925-2

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3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance parameter
EN ISO 11925-2		6		
15 s exposure	*Fs* ≤ 150 mm		(-)	Compliant
EN ISO 9239-1		3		
	Critical flux (kW/m^2)		10.4	Compliant
	Smoke (%.min)		104	Compliant

(-) : not applicable

4 Classification and field of application

4.1 Reference and direct field of application

This classification has been carried out in accordance with clause 12 and 15 of EN 13501-1:2007+A1:2009.

4.2 Classification

The product called "Primo Premium" in relation to its reaction to fire behaviour is classified:

B_{fl}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

Fire Behaviour		Smoke Production	
B_{fl}	-	s	1

Reaction to fire classification: B_{fl}-s1

4.3 Field of application:

This classification is valid for the following product parameters:

Nominal thickness : 2.0 mm.

Area weight : 3000 g/m^2.

This classification is valid for the following end use applications:

Substrates

- Wood based substrates at least 18 mm thick or substrates of Euroclass A1$_{fl}$ or A2$_{fl}$ at least 6 mm thick, having a density ≥ 510 kg/m^3.

The sample was delivered by the client. SP Fire Technology was not involved in the sampling procedure.

5 Limitations

This classification document does not represent type approval or certification of the product.

"The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is claimed to be relevant to the samples tested and that will provide for their traceability."

SP Technical Research Institute of Sweden

Fire Research - Fire Dynamics

Performed by

Johan Post

Examined by

Per Thureson

REPORT
issued by an Accredited Testing Laboratory

Contact person
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Date 2016-09-14 | Reference 6P05712rev1 | Page 1 (2)

Accred. No. 1002
Testing
ISO/IEC 17025

Tarkett AB
Ronnebyhamn
372 81 RONNEBY

Fire test according to EN 13823 (SBI Method) and EN ISO 11925-2

(4 appendices)

Introduction

SP has by request of Tarkett AB performed a fire test according to EN 13823:2010+A1:2014 (SBI method) and EN ISO 11925-2. The test is for informatory purpose.

This report replace SP test report 6P05712, dated September 13, 2016.

Product

According to the client:

Product called "Wallgard". The product has a nominal area weight of 2475 g/m^2 and a nominal thickness of 1.3 mm. Detailed product specification is filed at SP.

Manufacturer

Tarkett AB, Ronneby, Sweden.

Sampling

The sample was delivered by the client. It is not known to SP Fire Research if the product received is representative of the mean production characteristics.

The sample was received June 26, 2016 at SP Fire Research.

Test results

The test results are given in appendix 1 – 2 and photographs are shown in appendix 3. An explanation of the SBI-test parameters is given in appendix 4.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation. This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Deviation from standard

Only one test was carried out, instead of the number stipulated in the standard.

Note

The accreditation referred to is valid for EN 13823 and EN ISO 11925-2.

SP Technical Research Institute of Sweden
Safety - Fire Research, Fire Dynamics

Performed by

Anna Sandinge
Signed by: Anna Sandinge
Reason: I am the author of this document
Date & Time: 2016-09-15 12:24:27 +02:00

Anna Sandinge

Examined by

Per Thureson
Signed by: Per Thureson
Reason: I have reviewed this document
Date & Time: 2016-09-15 12:18:43 +02:00

Per Thureson

Appendices

1 Test results, EN ISO 11925-2 – Wallgard 1.3 mm

2 Test results, EN 13823 – Wallgard 1.3 mm

3 Photographs

4 Test parameter explanation, EN 13823

Appendix 1

Test results – EN ISO 11925-2:2010

Product

According to the client:

Product called "Wallgard". The product has a nominal area weight of 2475 kg/m^2 and a nominal thickness of 1.3 mm. Detailed product specification is filed at SP.

Test preparation

The specimen was glued to a paper faced plasterboard, with "Casco Proff Extra 3444" (type PVAc), glue amount 250 g/m^2 approximately.

Application

Edge exposure. Flame exposure time was 30 seconds.

Test results

Test no	1
Direction	↑
The sample ignited, s	4
The flames reach 150 mm, s	-*
Burning droplets	No
Time when filter paper ignited, s	-

*Flaming ceased before the flame tip reached 150 mm.

Application

Surface exposure. Flame exposure time was 30 seconds.

Test results

Test no	1
Direction	↑
The sample ignited, s	NI
The flames reach 150 mm, s	-
Burning droplets	No
Time when filter paper ignited, s	-

NI = No ignition.

Deviation from standard

The relative humidity in the test room was too high according to standard but it is deemed not to have an affect on the result.

Measured data

Thickness 1.3 mm approximately.

Area weight 2.1 kg/m^2.

Conditioning

According to EN 13238:2010.

Temperature (23 ± 2) °C.

Relative humidity (50 ± 5) %.

Date of test

September 8, 2016.

Test results, EN 13823:2010+A1:2014

Product

According to the client:

Product called "Wallgard". The product has a nominal area weight of 2475 kg/m^2 and a nominal thickness of 1.3 mm. Detailed product specification is filed at SP.

Mounting

See photo 1 – 2, appendix 3.

The wall covering was mounted according to EN 13823:2010+A1:2014, 5.2.2 d, e. It was glued to a paper faced plasterboard, with "Casco Proff Extra 3444" (type PVAc), glue amount 250 g/m^2 approximately. Both vertical and horizontal joint was used. The backing board was standing directly behind the plasterboard. The plasterboard fulfils the requirements given in EN 13238.

Test results

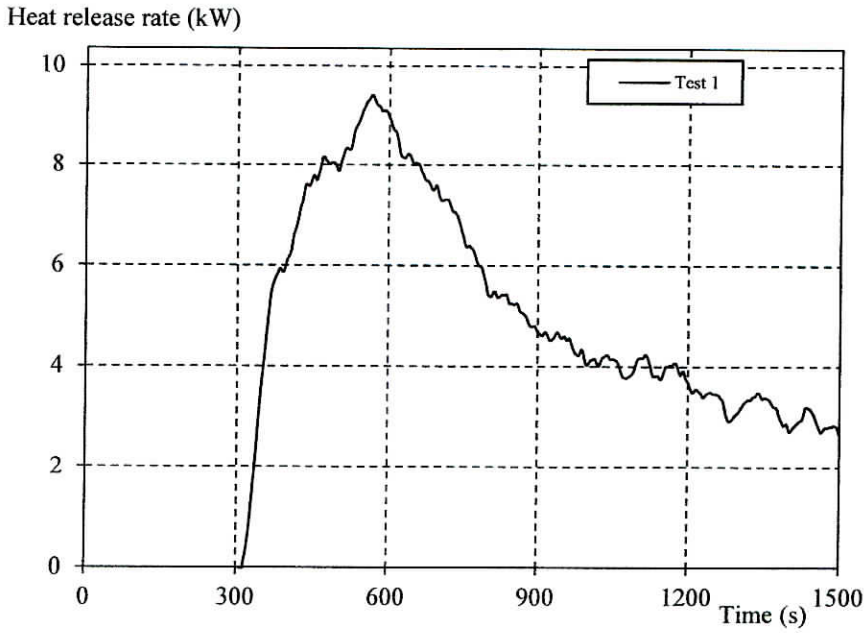
Test no	Test 1	Test 2	Test 3	Average
General information				
Test start, min:s	0:00	-	-	
Auxiliary burner ignited and adjusted, min:s	2:00	-	-	
Main burner ignited, min:s	5:00	-	-	
Main burner stopped, min:s	26:00	-	-	
Observations				
Flaming droplets or particles	No	-	-	
Burning droplets or particles, > 10 s	No	-	-	
Lateral flame spread until the edge, LFS	No	-	-	
Fire performance, see graph no 3 to 6				
$FIGRA_{0.2MJ}$, W/s	75	-	-	-
$FIGRA_{0.4MJ}$, W/s	59	-	-	-
$SMOGRA$, m^2/s^2	21	-	-	-
THR_{600s}, MJ	4	-	-	-
TSP_{600s}, m^2	123	-	-	-

Method of smoke calculation

The smoke production rate, SPR, of the burner was calculated using data from the auxiliary (secondary) burner.

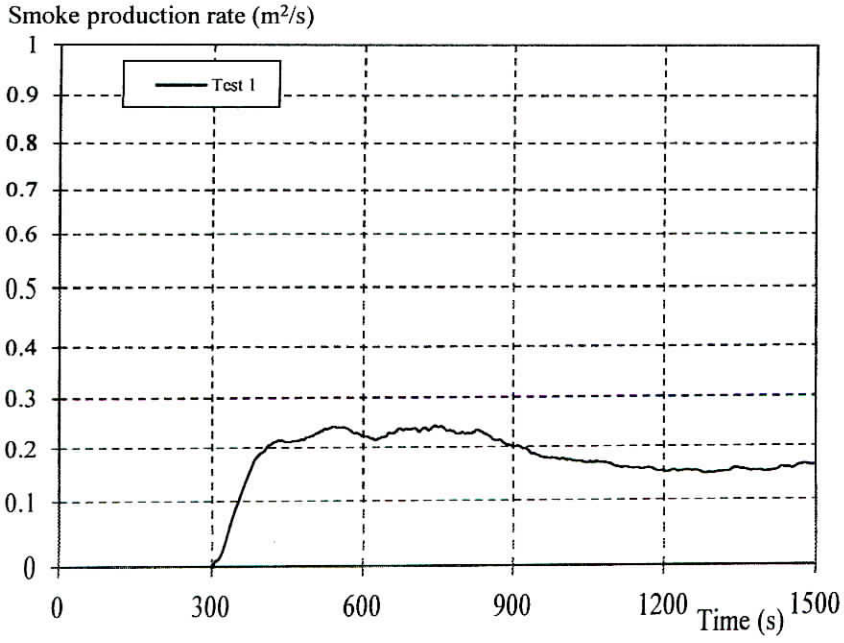
Appendix 2

Graph of heat release rate (HRR_{av})



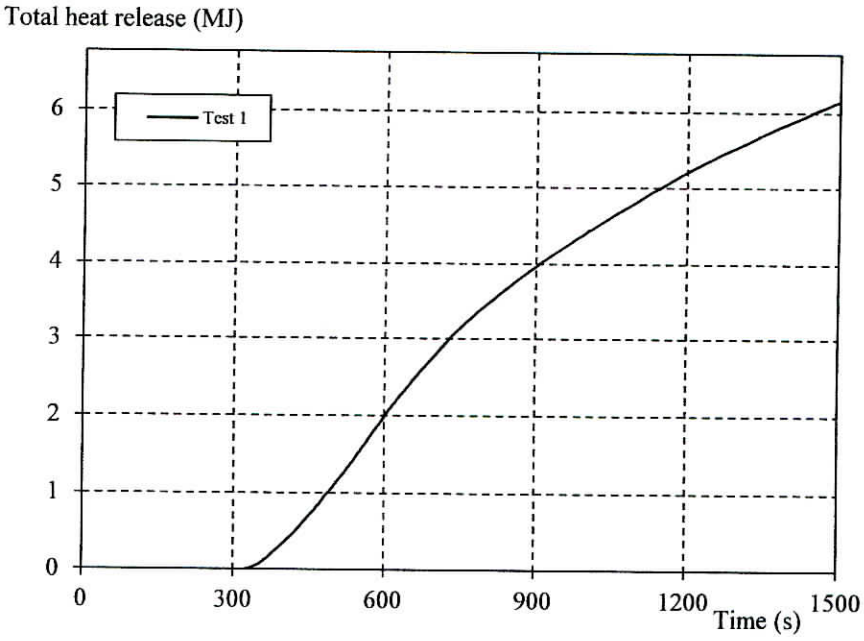
Graph 1 Heat release rate (burner excluded), 30 seconds running average value.

Graph of smoke production rate (SPR_{av})



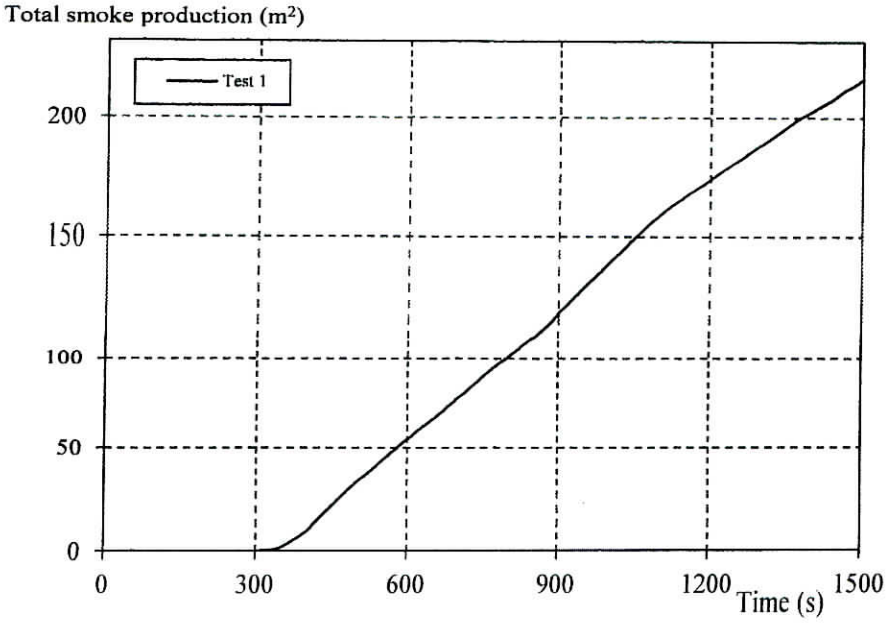
Graph 2 Smoke production rate (burner excluded), 60 seconds running average value.

Graph of total heat release (*THR*)



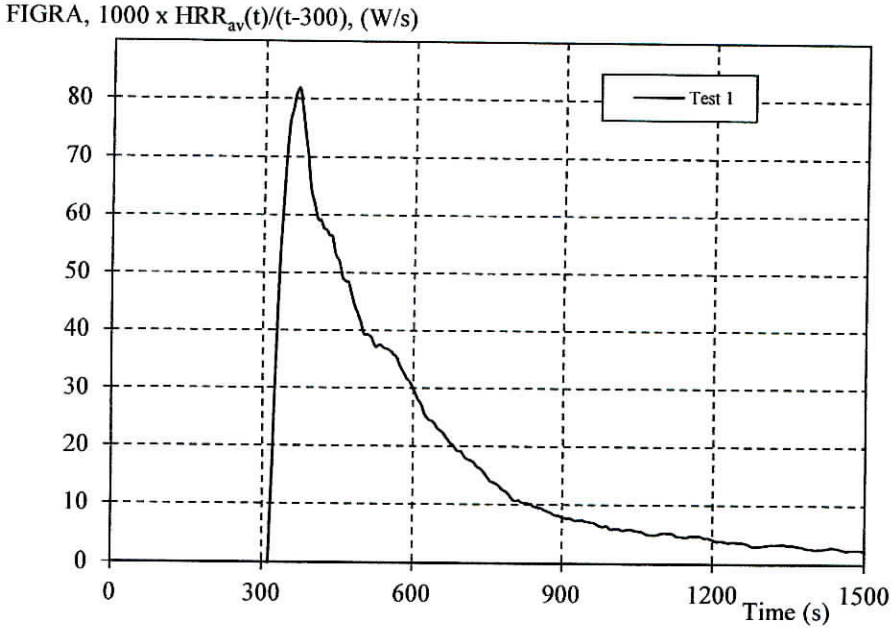
Graph 3 Total heat release (burner excluded).

Graph of total smoke production (*TSP*)



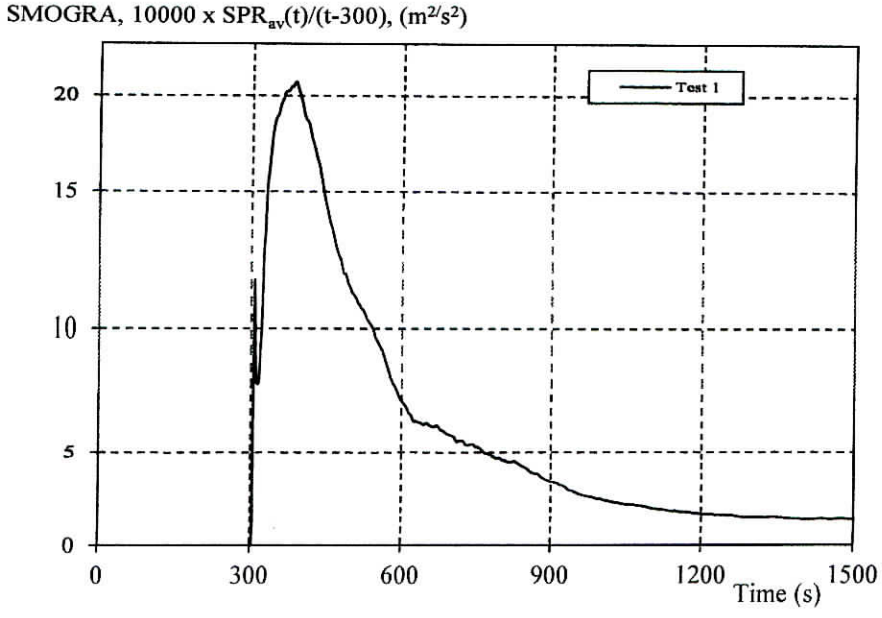
Graph 4 Total smoke production (burner excluded).

Graph of FIre Growth RAte index (*FIGRA*)



Graph 5 Fire growth rate index.

Graph of SMOke Growth RAte index (*SMOGRA*)



Graph 6 Smoke growth rate index.

Note

Graphs 5 and 6 show the time relationships of *FIGRA* and *SMOGRA* respectively without applying the threshold values, see EN 13823, paragraph A.5.3 and A.6.3. Therefore the reported single maximum values of $FIGRA_{0,2MJ}$, $FIGRA_{0,4MJ}$ and *SMOGRA* may be smaller than shown in the graphs as the threshold values are applied in this case.

Measured data

Thickness 1.3 mm approximately.

Area weight 2.1 kg/m^2.

Conditioning

According to EN 13238 and EN 13823:2010.
Temperature (23 ± 2) °C.
Relative humidity (50 ± 5) %.

Date of test

August 3, 2016.

Photographs

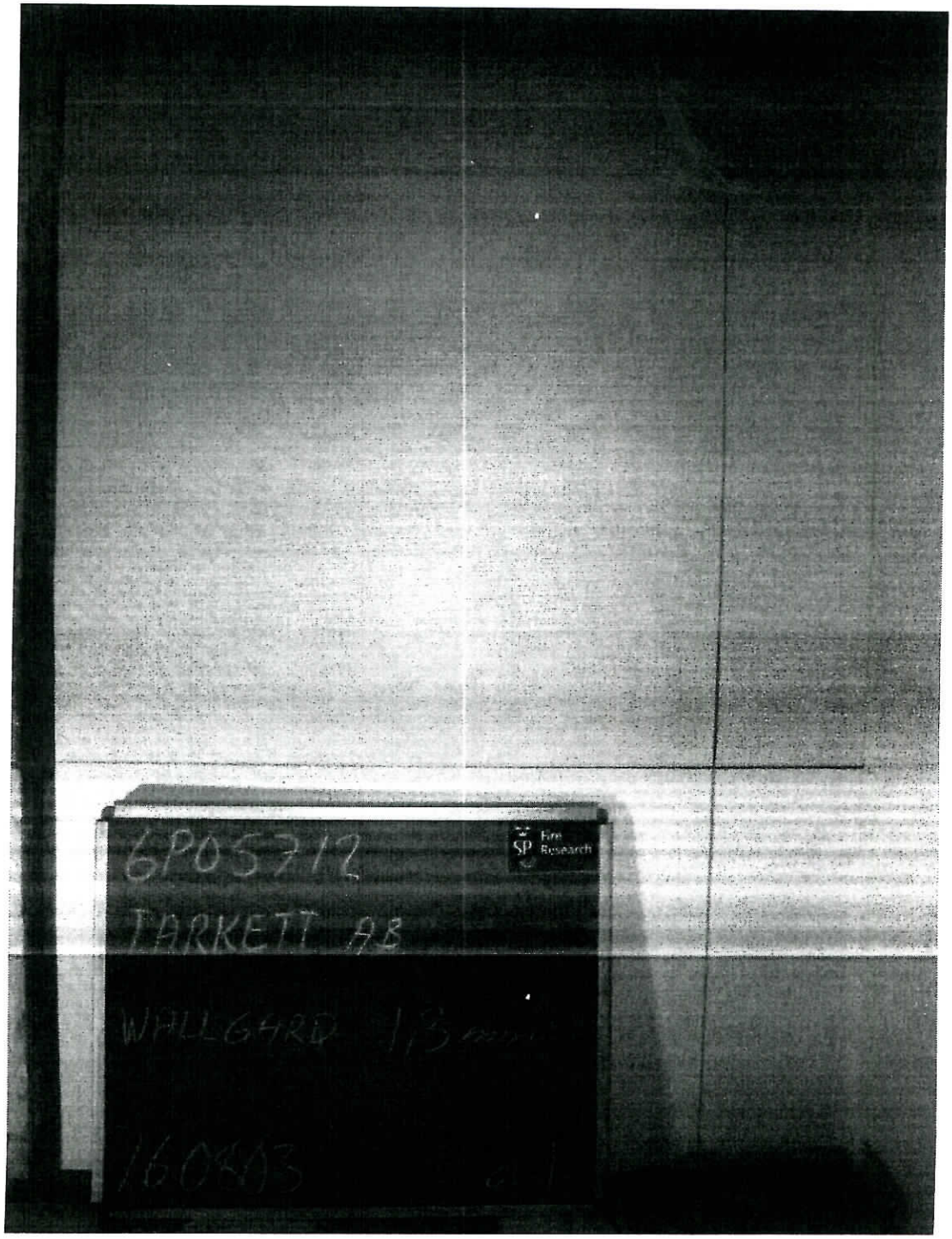


Photo no 1 Prior to test "Wallgard 1.3 mm"

The exposed surface of the long wing.

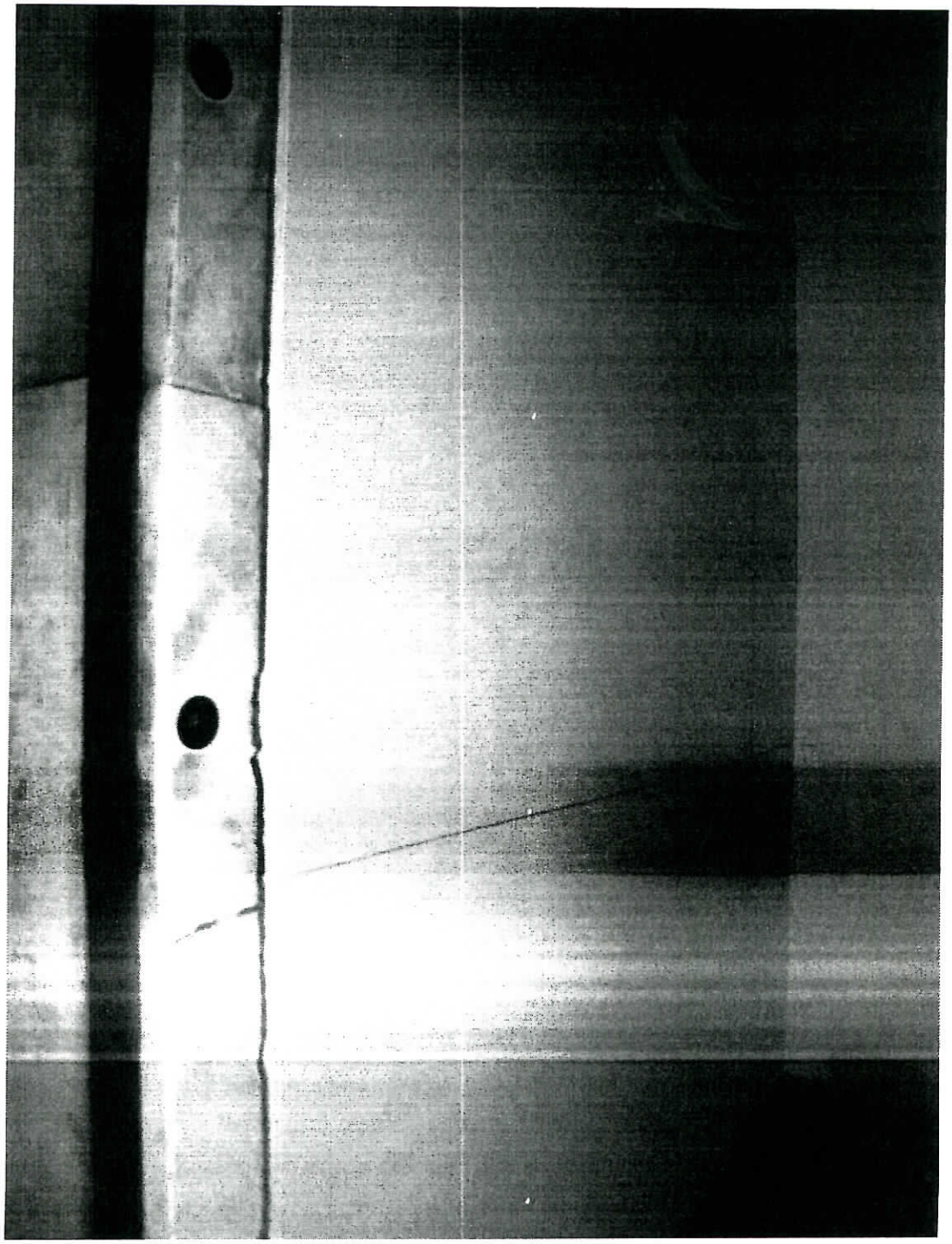


Photo no 2 Prior to test "Wallgard 1.3 mm"

The vertical outer edge of the long wing at a height of 500 mm above the floor of the trolley.

Appendix 3

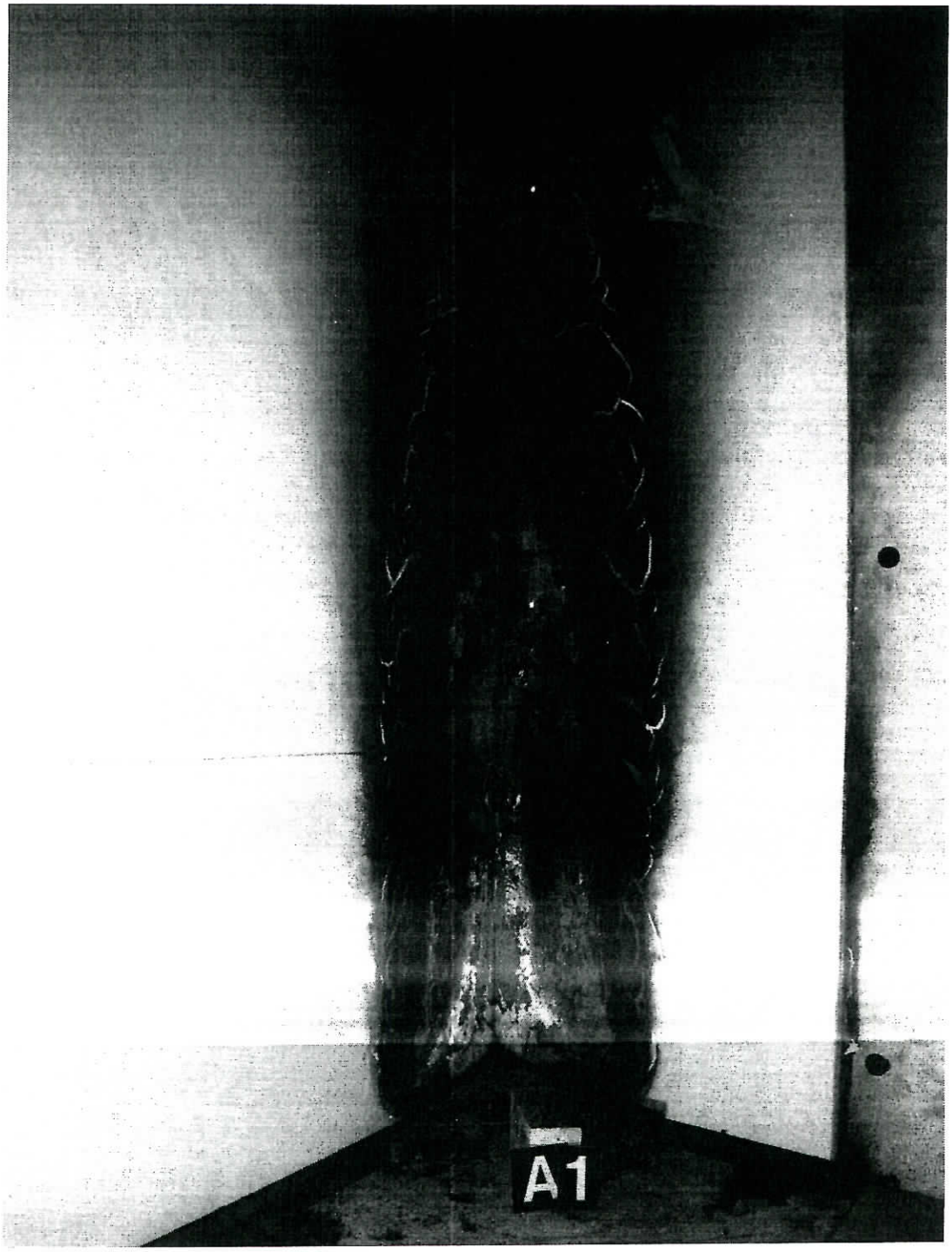


Photo no 3 After test "Wallgard 1.3 mm"

Impact of flames in the burner corner.

Appendix 4

Test parameter explanation – EN 13823:2010+A1:2014 (SBI method)

Parameter	Explanation
Test start	Start of data collection.
End of test	26:00 (min:s) after test start.
HRR_{av}, maximum, kW	Peak Heat Release Rate of material between ignition of the main burner and end of test (burner heat output excluded), as a 30 seconds running average value.
SPR_{av}, maximum, m^2/s	Peak Smoke Production Rate of material between ignition of the main burner and end of test (burner heat output excluded), as a 60 seconds running average value.
$FIGRA_{0,2MJ}$, W/s	FIre Growth RAte index is defined as the maximum of the quotient $HRR_{av}(t)/(t-300s)$, multiplied by 1000. During 300 s ≤ t ≤ 1500 s, threshold value 3 kW and 0.2 MJ.
$FIGRA_{0,4MJ}$, W/s	FIre Growth RAte index is defined as the maximum of the quotient $HRR_{av}(t)/(t-300s)$, multiplied by 1000. During 300 s ≤ t ≤ 1500 s, threshold value 3 kW and 0.4 MJ.
$SMOGRA$, m^2/s^2	SMOke Growth RAte index is defined as the maximum of the quotient $SPR_{av}(t)/(t-300s)$, multiplied by 10 000. During 300 s ≤ t ≤ 1500 s, threshold value 0.1 m^2/s and 6 m^2.
THR_{600s}, MJ	Total heat release of the sample during 300 s ≤ t ≤ 900 s.
TSP_{600s}, m^2	Total smoke production of the sample during 300 s ≤ t ≤ 900 s.

iQ EMINENT technical data

CERTIFICATION & CLASSIFICATION	STANDARDS	iQ Eminent
Type of floor covering	ISO 10581	Homogeneous single layered vinyl flooring.
Binder content	ISO 10581	Type I
CE certification	EN 14041	Yes
Classification	ISO 10874	Commercial: 34 Industrial: 43

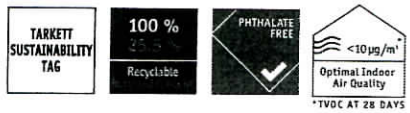
TECHNICAL CHARACTERISTICS	STANDARDS	iQ Eminent
iQ PUR		Yes
Total thickness	ISO 24346	2.0 mm
Total weight/m²	ISO 23997	2800 g
Form of delivery	ISO 24341	
	Sheet (rolls)	Approx. 23 lm x 200 cm Art. no. 21030 ___ 3 digit colour number
	ISO 24342	
	Tiles (box)	61 x 61 cm - 14 tiles/box = 5.21 m² Art. no. 21031 ___ 3 digit colour number

TECHNICAL PERFORMANCES	STANDARDS	iQ Eminent
Reaction to fire	EN ISO 13501-1	Class B_{fl} s1
	EN ISO 9239-1	≥ 8 kW/m²
	EN ISO 11925-2	Pass
Total VOC emissions	AgBB/DIBt	≤ 10 µg/m³ (after 28 days)
	Indoor air quality	Platinum
	FloorScore	SCS certified
	RTS emission class	M1
Clean room	ISO 14644-1	ISO class 4
	ASTM F24 F51	Class A
Bacteria resistance	ISO 846 Part C	Does not favour growth
Ease of decontamination	ISO 8690 – DIN 25415	Excellent
Chemical resistance	ISO 26987	Excellent
Slip resistance	DIN 51130	R9
	EN 13893	≥ 0.3
	BS 7976-2	Low risk of slip
Wet room approval	EN 13553 Annex A	Watertight
	GBR approval system	Certified
Abrasion	EN 660:Part 2	≤ 2.0 mm³
Residual indentation	ISO 24343-1	Required value: ≤ 0.10 mm Best measured value: 0.02 mm
Dimensional stability	ISO 23999	≤ 0.40% for rolls ≤ 0.25% for tiles
Castor chair test	ISO 4918	Suitable
Flexibility	ISO 24344	Pass
Static electrical discharge	EN 1815	< 2 kV
Underfloor heating		Suitable - max. 27°C
Thermal resistance	EN 12667	Approx. 0.01 m² K/W
Light fastness	EN ISO 105-B02	≥ level 6
Seam strength	EN 684	Average value: ≥ 240 N/50mm Individual values: ≥ 180 N/50mm
Colours		34

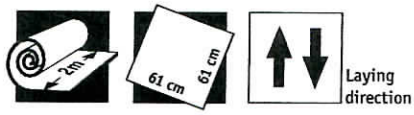
The above information is subject to modification for the benefit of further improvement. (05/16).

CUSTOMS TARIFF: 482050000000F

Tarkett's instructions regarding installation, cleaning and maintenance should be observed. Please contact Tarkett at the address shown for these instructions.



Logistics Information



General Information

According to European Classification ISO 10874 - EN 685

iQ Eminent	Welding Rod Plain	Welding Rod Multicolour	iQ Eminent	Welding Rod Plain	Welding Rod Multicolour	iQ Eminent	Welding Rod Plain	Welding Rod Multicolour	iQ Eminent	Welding Rod Plain	Welding Rod Multicolour	iQ Eminent	Welding Rod Plain	Welding Rod Multicolour
125	1287 411	1290 242	132	1287 624	1290 245	139	1287 466	1290 252	146	1287 621	1290 259	153	1289 316	–
126	1287 446	1290 243	133	1287 533	1290 131	140	1287 041	1290 253	147	1287 622	1290 260	154	1292 859	–
127	1287 027	1290 022	134	1287 256	1290 247	141	1292 611	1290 254	148	1287 623	1290 261	155	1287 626	–
128	1292 383	1290 170	135	1287 427	1290 248	142	1292 371	1290 255	149	1287 618	1290 238	156	1287 427	–
129	1294 727	1290 087	136	1287 012	1290 249	143	1287 625	1290 256	150	1287 619	1290 239	157	1287 627	–
130	1287 340	1290 155	137	1287 256	1290 250	144	1287 635	1290 257	151	1287 579	1290 240	158	1287 628	–
131	1291 214	1290 244	138	1287 160	1290 188	145	1287 636	1290 258	152	1287 463	1290 241			

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Tarkett | www.professionals.tarkett.com

iQ GRANIT technical data

CERTIFICATION & CLASSIFICATION	STANDARDS	iQ Granit	iQ Granit Acoustic	iQ Toro SC	iQ Granit SD	Granit Safe.T	Granit Multisafe
Type of floor covering	ISO 10581	Homogeneous single layered vinyl flooring	-	Static conductive homogeneous vinyl flooring	Static dissipative homogeneous vinyl flooring	-	Homogeneous vinyl flooring with studded surface
	ISO 11638	-	Homogeneous vinyl flooring with foam interlayer	-	-	-	-
	EN 13845	-	-	-	-	Slip resistant homogeneous vinyl flooring	-
Binder content	ISO 10581	Type I	-	Type I	Type I	-	Type I
	ISO 11638	-	Type II	-	-	-	-
Classification	ISO 10874	Commercial: 34 Industrial: 43	Commercial: 34 Industrial: 42	Commercial: 34 Industrial: 43	Commercial: 34 Industrial: 43	Commercial: 34 Industrial: 43	Commercial: 31 Industrial: -
TECHNICAL CHARACTERISTICS	**STANDARDS**	**iQ Granit**	**iQ Granit Acoustic**	**iQ Toro SC**	**iQ Granit SD**	**Granit Safe.T**	**Granit Multisafe**
Surface treatment		iQ	New iQ PUR	iQ	iQ	Safe.T Clean XP™	-
Total thickness	ISO 24346	2.0 mm	3.5 mm	2.0 mm	2.0 mm	2.0 mm	2.5 mm
Wear layer thickness	ISO 24340	2.0 mm	2.0 mm	2.0 mm	2.0 mm	2.0 mm	2.5 mm
Total weight	ISO 23997	2800 g/m²	3810 g/m²	2950 g/m²	2950 g/m²	2950 g/m²	3010 g/m²
Form of delivery	ISO 24341 Sheet (rolls)	Approx. 25 lm x 200 cm Art. no. 3040___ 3 digit colour colour number	Approx. 23 lm x 200 cm Art. no. 21076___ 3 digit colour colour number	Approx. 23 lm x 200 cm Art. no. 3093___ 3 digit colour colour number	Approx. 23 lm x 200 cm Art. no. 3096___ 3 digit colour colour number	Approx. 25 lm x 200 cm Art. no. 3052___ 3 digit colour colour number	Approx. 25 lm x 200 cm Art. no. 3476___ 3 digit colour colour number
		Art. no. 3218__ _(Multicolour) 3 digit colour colour number	-	-	-	-	-
		Art. no. 21050___(iQ Granit Micro) 3 digit colour colour number	-	-	-	-	-
	ISO 24342 Tiles (box)	61.0 x 61.0 cm 14 tiles/box = 5.21 m² Art. no. 3243___ 3 digit colour colour number	-	61.0 x 61.0 cm 14 tiles/box = 5.21 m² Art. no. 3094___ 3 digit colour colour number	61.0 x 61.0 cm 14 tiles/box = 5.21 m² Art. no. 3097___ 3 digit colour colour number	-	-
		Art. no. 3044___ (Multicolour) 3 digit colour colour number	-	-	-	-	-
		Art. no. 21050___(iQ Granit Micro) 3 digit colour colour number	-	-	-	-	-
TECHNICAL PERFORMANCES	**STANDARDS**	**iQ Granit**	**iQ Granit Acoustic**	**iQ Toro SC**	**iQ Granit SD**	**Granit Safe.T**	**Granit Multisafe**
Reaction to fire	EN 13501-1 EN ISO 9239-1 EN ISO 11925-2	Class B_{fl} s1 ≥ 8 kW/m² Pass	Class B_{fl} s1 ≥ 8 kW/m² Pass	Class B_{fl} s1 ≥ 8 kW/m² Pass	Class B_{fl} s1 ≥ 8 kW/m² Pass	Class B_{fl} s1 ≥ 8 kW/m² Pass	Class B_{fl} s1 ≥ 8 kW/m² Pass
Marine equipment	IMO FTPS Part 5 and 2 IMO Res. A653	0575					0575
Residual indentation	ISO 24343-1	Required value: ≤ 0.10 mm Best measured value: 0.02 mm	Required value: ≤ 0.20 mm Best measured value: 0.09 mm	Required value: ≤ 0.10 mm Best measured value: 0.02 mm	Required value: ≤ 0.10 mm Best measured value: 0.02 mm	Required value: ≤ 0.10 mm Best measured value: 0.02 mm	Required value: ≤ 0.10 mm Best measured value: 0.02 mm
Castor chair test	ISO 4918	Suitable	Suitable	Suitable	Suitable	Suitable	-
Static electrical discharge	EN 1815 On any surface with resistance ≤ 10⁹Ω	< 2 kV	-	< 2 kV	< 2 kV	< 2 kV	< 2 kV
Clean room	ISO 14644-1	ISO class 4	-	ISO class 4	ISO class 4	-	-
Total VOC emissions	ISO 16000-6 AgBB/DIBt Indoor air quality FloorScore	≤ 10 µg/m³ (after 28 days) Confirm Platinum SCS certified	≤ 10 µg/m³ (after 28 days) Confirm Platinum SCS certified	≤ 10 µg/m³ (after 28 days) Confirm Platinum SCS certified	≤ 10 µg/m³ (after 28 days) Confirm Platinum SCS certified	≤ 10 µg/m³ (after 28 days) Confirm Platinum SCS certified	≤ 10 µg/m³ (after 28 days) Confirm Platinum SCS certified
Underfloor heating		Suitable – max 27°C	Suitable – max 27°C	Suitable – max 27°C	Suitable – max 27°C	Suitable – max 27°C	Suitable – max 27°C
Light fastness	EN ISO 105-B02	Level 7	Level 7	Level 7	Level 7	Level 7	Level 7
Ease of decontamination	ISO 8690 – DIN 25415	Excellent	Excellent	Excellent	Excellent	-	-
Chemical resistance	ISO 26987	Excellent	Excellent	Excellent	Excellent	Good	Good
Bacteria resistance	EN ISO 846:Part C	Does not favour growth	Does not favour growth	Does not favour growth	Does not favour growth	Does not favour growth	Does not favour growth
Slip resistance	DIN 51130 DIN 51097 EN 13893 BS 7976-2	R9 - ≥ 0.3 Low risk of slip	R9 - ≥ 0.3 Low risk of slip	R9 - ≥ 0.3 Low risk of slip	R9 - ≥ 0.3 Low risk of slip	R10 Class B (≥ 18°) ≥ 0.3 Low risk of slip	R10 Class C (27°) ≥ 0.3 Low risk of slip
Wet room approval	EN 13553 Annex A	Watertight	-	-	-	Watertight	Watertight
Impact sound reduction	EN ISO 717/2	-	Approx. + 15 dB	-	-	-	-
Electrical insulation	VDE 0100, Part 600	-	-	$R \leq 5x10^6$ Ohms	$R \leq 5x10^6$ Ohms	-	-
Electrical resistance	ESD-approval SP method 2472 EN 1081	-	-	$R \leq 10^9$ Ohms $R1\ 5x10^4 \leq R \leq 10^9$ Ohms $R2\ 5x10^4 \leq R \leq 10^9$ Ohms	$R \leq 10^9$ Ohms $R1 \leq 10^9$ Ohms $R2 \leq 10^9$ Ohms	-	-
	EN/IEC 61340-4- / 100 V EN/IEC 61340-4-5			$R\ 5x10^4 \leq R \leq 10^9$ Ohms** $\leq 3.5x10^7$ Ohms	$R \leq 10^9$ Ohms**		
Colours		49 + 1 Multicolour* + 12 iQ Granit Micro	20	14	14	16	16

The above information is subject to modification for the benefit of further improvement. (01/17). * iQ Granit Multicolour is not approved for use under the IMO directive. ** Measured to ground.

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CUSTOMS TARIFF : 482050000000F

TARKETT SUSTAINABILITY TAG — 100 % Recyclable — PHTHALATE FREE — <10µg/m³ Optimal Indoor Air Quality *TVOC AT 28 DAYS

Surface treatment

iQ NEW PUR FEEL

Logistics Information

61 cm 61 cm

General Information

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iQ TORO SC technical data

CERTIFICATION & CLASSIFICATION	STANDARDS	iQ Toro SC
Type of floor covering	ISO 10581	Permanently static conductive pressed homogeneous vinyl flooring
Binder content	ISO 10581	Type I
CE certification	EN 14041	Yes
Classification	ISO 10874	Commercial: 34 Industrial: 43

TECHNICAL CHARACTERISTICS	STANDARDS	iQ Toro SC
Wear layer thickness	ISO 24340	2.0 mm
iQ PUR		Yes
Total thickness	ISO 24346	2.0 mm
Total weight/m²	ISO 23997	2950 g
Form of delivery	ISO 24341 Sheet (rolls)	 Approx. 23 lm x 200 cm Art. no. 3093 ___ 3 digit colour number
	ISO 24342 Tiles (box)	 61 x 61 cm 14 tiles/box = 5.21 m² Art. no. 3094 ___ 3 digit colour number

TECHNICAL PERFORMANCES	STANDARDS	iQ Toro SC
Dimensional stability	ISO 23999	≤ 0.40% for rolls ≤ 0.25% for tiles
Reaction to fire	EN ISO 13501-1 EN ISO 9239-1 EN ISO 11925-2	Class B_{fl} s1 ≥ 8 kW/m² Pass
Residual indentation	ISO 24343-1	Required value: ≤ 0.10mm Best measured value: 0.02 mm
Castors chair test	ISO 4918	Suitable
Static electrical discharge	EN 1815	< 2 kV
Electrical insulation	VDE 0100, Part 600	$R_i \leq 5 \times 10^4$ Ohms
Electrical resistance	ESD-approval SP-method 2472 EN 1081 EN/IEC 61340-4-1 / 100 V EN/IEC 61340-4-5	R ≤ 10^9 Ohms R_1 $5x10^4 \leq R \leq 10^6$ Ohms R_2 $5x10^4 \leq R \leq 10^5$ Ohms R $5x10^4 \leq R \leq 10^5$ Ohms ≤ $3.5x10^7$ Ohms
Clean room test	ASTM F24 F51	Class A
Ease of decontamination	ISO 8690	Good
Total VOC emissions	AgBB/DIBt	≤ 10 µg/m³ (after 28 days)
Underfloor heating		Suitable - max. 27°C
Thermal resistance	EN 12667	Approx. 0.01 m² K/W
Light fastness	EN ISO 105-B02	≥ level 7
Chemical resistance	ISO 26987	Good resistance
Bacteria resistance	ISO 846:Part C	Does not favour growth
Slip resistance	DIN 51130 EN 13896	R9 ≥ 0.3
Seam strength	EN 684	Average value: ≥ 240 N/50 mm Individual values: ≥ 180 N/50 mm
Colours		14

The above information is subject to modification for the benefit of further improvement. (05/16).

CUSTOMS TARIFF : 482050000000F

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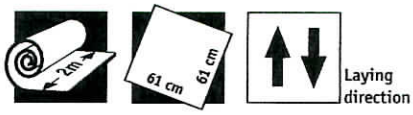
TARKETT SUSTAINABILITY TAG | 100 % Recyclable | PHTHALATE FREE | <10µg/m³* Optimal Indoor Air Quality *TVOC AT 28 DAYS

Logistics Information



General Information

According to European Classification ISO 10874 - EN 685

iQ Toro SC	NCS N°	Welding Rod No.	iQ Toro SC	NCS N°	Welding Rod No.	iQ Toro SC	NCS N°	Welding Rod No.	iQ Toro SC	NCS N°	Welding Rod No.
100	S 1002-Y50R	1287 322	104	S 1005-Y40R	1288 255	572	S 1515-Y30R	1287 438	576	S 4020-G50Y	1287 309
101	S 2502-B	1291 811	105	S 2020 Y30R	1292 372	573	S 2030-Y30R	1287 059	578	S 6502-B	1291 216
102	S 4502-B	1292 383	107	S 2020-R90B	1291 210	574	S 4005-Y50R	1287 379			
103	S 8502-B	1292 384	570	S 1502-Y50R	1287 531	575	S 7005-Y80R	1287 456			

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PRIMO PREMIUM

TECHNICAL DATA

CERTIFICATION & CLASSIFICATION	STANDARDS	PRIMO PREMIUM
Type of floor covering	ISO 10581	Homogeneous vinyl flooring
Classification	EN ISO 10874	Commercial: 34 Industrial: 43
Wear layer binder content	ISO 10581	Type I
TECHNICAL CHARACTERISTICS		
Total thickness	EN ISO 24346	2.0 mm
Total weight	EN ISO 23997	3000 g/m²
Surface treatment		PUR reinforced
Form of delivery	EN ISO 24341 Sheet (rolls)	Approx. 23 lm x 200 cm Art. no. 21010 ___ 3 digit colour number
	EN ISO 24342 Tiles (box)	61 x 61 cm - 14 tiles/box = 5.21 m² Art. no. 21011 ___ 3 digit colour number
PERFORMANCES FOR CE MARKING REQUIREMENTS (EN 14041)		
Declaration of Performance	EN 14041	0019-0018-DoP-2013-07
Reaction to fire	EN 13501-1	Class B_{fl}-s1
	EN ISO 9239-1	≥ 8 kW/m²
	EN ISO 11925-2	Pass
Electrostatic properties	EN 1815	< 2 kV
Thermal resistance	EN 12667/DIN 52612	Approx. 0.01 m² K/W
Slip resistance	EN 13893 /BS 7976-2	≥ 0.3 / Low risk of slip
TECHNICAL PERFORMANCES		
Residual indentation	EN ISO 24343-1	Required value: ≤ 0.10 mm Best measured value*: 0.03 mm
Slip resistance	DIN 51130	R9
Clean room test	ASTM F24 F51	Class A
	ISO 14644-1	ISO class 4
Ease of decontamination	ISO 8690	Good
Bacteria resistance	EN ISO 846: Part C	Does not favour growth
Chemical resistance	ISO 26987	Good resistance
Castor chair	ISO 4918	Suitable
Flexibility	ISO 24344	Pass
Dimensional stability	EN ISO 23999	≤ 0.40 % for rolls / ≤ 0.25 % for tiles
Light fastness	EN ISO 105-B02	≥ 6
Seam strength	EN 684	Individual values: ≥ 400 N/50 mm
Underfloor heating		Suitable - max. 27°C
ENVIRONMENTAL PERFORMANCES		
Total VOC emissions	ISO 16000-9 / Indoor air quality	≤ 10 µg/m³ (after 28 days) / Platinum
COLOURS		

The above information is subject to modification for the benefit of further improvement. (04/18). *For information - not binding.

According to the European Regulation N° 305/2011 for CE Marking, the Declarations of Performance are available on our website www.tarkett.com

CUSTOMS TARIFF : 4820 5000 00

Tarkett's instructions regarding installation, cleaning and maintenance should be observed. Please contact Tarkett at the address shown for these instructions.

Colours of the products shown in the photos or samples are indicative only. There may be differences in colours, gloss and embossing structure between the products sold and photos or samples.

PRIMO PREMIUM		
Article	Colour name	WR (Multi)
21010600	md warm grey	1290377
21010625	clay grey	1290378
21010631	sand	1290379
21010632	dk bric grey	1290380
21010638	ocean blue	1290381
21010639	sky blue	1290382
21010640	white olive green	1290383
21010641	dk orange	1290384
21010653	light red	1290385
21010663	soft purple	1290386
21010664	soft yellow	1290387
21010667	soft orange	1290388
21010668	soft red	1290389

Tarkett

WALLGARD technical data

CERTIFICATION & CLASSIFICATION	STANDARDS	Wallgard
Type of wall covering	EN 259-1	Homogeneous vinyl wall covering
CE certification	EN 15102	Yes
TECHNICAL CHARACTERISTICS	**STANDARDS**	**Wallgard**
PU-Shield		Yes
Total thickness	ISO 24346	1.3 mm
Total weight/m²	ISO 23997	2.100 g
Form of delivery	ISO 24341 Sheet (rolls)	 Approx. 30 lm x 200 cm Art. no. 21055 ___ 3 digit colour number
TECHNICAL PERFORMANCES	**STANDARDS**	**Wallgard**
Dimensional stability	ISO 23999	≤ 0.40%
Reaction to fire	EN 13501-1 AS/NZS 3837	Class B-s2,d0 Class B
Wetroom approval	GBR Class VT	Approved
Airborne particle emissions	ISO 14644-1 ASTM F24 F51	ISO class 4 Class A
Total VOC emissions	ISO 16000-6 AgBB/DIBt	≤ 10 µg/m³ (after 28 days) Confirm
Outgassing VOC (23°C/90°C)	ISO-Acc_m class	≤ 9.6
Light fastness	EN ISO 105-B02	≥ level 7
Chemical resistance	ISO 26987	Excellent
Bacteria resistance	ISO 846: Part C	Does not favour growth
Seam strength	EN 684	Average value: ≥ 240 N/50 mm Individual values: ≥ 180 N/50 mm
Colours		13

The above information is subject to modification for the benefit of further improvement. (05/16).

CUSTOMS TARIFF : 482050000000F

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TARKETT SUSTAINABILITY TAG · 100 % Recyclable · PHTHALATE FREE · <10µg/m³ Optimal Indoor Air Quality *TVOC AT 28 DAYS

Logistics Information

Surface treatment

PU SHIELD

General Information

SGS · SGS

Cleanroom Suitable Materials · Cleanroom Suitable Materials

Wallgard	NCS N°	Welding Rod No.	Wallgard	NCS N°	Welding Rod No.	Wallgard	NCS N°	Welding Rod No.	Wallgard	NCS N°	Welding Rod No.
220	S 0500-N	1290 011	224	S 0510-Y20R	1287 723	228	S 0530-Y10R	1287 725	232	S 4020-R80B	1287 724
221	S 1000-N	1288 125	225	S 0505-G30Y	1287 726	229	S 1020-G60Y	1287 721			
222	S 1002-Y50R	1287 728	226	S 1005-R90B	1288 157	230	S 1020-R90B	1287 727			
223	S 0804-Y30R	1287 729	227	S 0530-Y50R	1287 722	231	NCS S 4500-N	1287 730			

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